

Analysis Results (SOIL)

Customer A FARMER
 THE FARM
 ABC 123

Distributor PRAG LTD
 MOUNTAIN FARM
 BROADWAY
 HAVERFORDWEST
 PEMBROKESHIRE
 SA62 3HU

Sample Ref EXAMPLE SOIL CARBON ASSESSMENT **Date Received** 01/01/2019 (Date Issued: 03/01/2019)

Sample No EXAMPLE SCA

Crop BARLEY

Analysis	Result	Guideline	Interpretation	Comments
Org. Matter - DUMAS (%)	6.7	3.0	Normal	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon - DUM (%)	3.9	1.7	Normal	Normal (See Organic Matter comment). Organic carbon is the measurable component of organic matter. Organic carbon and organic matter can be broken into distinct 'pools'. These pools include labile/active (particulate, almost entirely decomposed, readily available microbe foodsource), humus carbon (decomposing carbon) and recalcitrant organic carbon (resistant to decomposition). Each of these pools are involved in different soil processes (see: Active Carbon).
Org. Carbon Stock (t/ha)	76.0	34.0	Normal	The calculated level of organic carbon (active + humus) within one hectare when soil bulk density is either assumed (1.3g/cm ³) or has been overwritten with a disturbed soil measured value (if SCA Extra has been requested) and soil depth is 15cm. Please see footnotes for calculation if you wish to adapt. Multiply the OC stock value by the field area (hectares) to indicate level of carbon stored within the field.
Total Nitrogen (%)	0.40			
C:N Ratio	9.75	10.00	Low	Low. A low C:N ratio in the soil encourages microbial activity and the amount and rate of nutrients made available to the plants through mineralisation. A ratio of 8 - 10 indicates the potential for a rapid decomposition of organic residue and a low retention of applied organic materials.

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Additional Comments

Carbon Stock (t/ha) has been calculated with assumed bulk density of 1.3 g/cm³) and sampling depth of 15 cm.

To recalculate the Carbon Stock using other depths and bulk densities please use this calculation:

Carbon (%) x Sampling Depth (cm) x Bulk Density (g/cm³) = Carbon Stock (t/ha)

E.g. 4.0% x 15cm x 1.3 g/cm³ = 78 t/ha carbon stock.

Additional technical bulletins are available at www.lancrop.com

Please Note

Whilst every care is taken to ensure that the Results from Analysis are as accurate as possible, it is important to note that the analysis relates to the sample received by the laboratory, and is representative only of that sample. No warranty is given by the laboratory that the Results from Analysis relates to any part of a field or growing area not covered by the sample received. It is important to ensure that any soil, leaf, silage or fruitlet sample sent for analysis is representative of the area requiring analysis and that samples are obtained in accordance with established sampling techniques. A leaflet containing instructions on how to take soil, leaf, herbage, silage and fruit samples for analysis is available from the laboratory on request. Uncertainty measurements of results are available on request.

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Released by **Chris Lindley**.....Laboratory Manager on behalf of Lancrop Laboratories